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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,244	06/05/2006	Kai Dolling	Muller-52	8017
39703 C. JAMES BU	7590 05/13/200 ISHMAN	EXAM	IINER	
5851 San Felip		FIORITO, JAMES		
SUITE 975 HOUSTON, TX 77057			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			05/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/564,244	DOLLING ET AL.	
Examiner	Art Unit	
JAMES A. FIORITO	1793	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

 Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed

* Attachme 1)	Certified copies of the priori Copies of the certified copie application from the Internal See the attached detailed Office act	s of the priority documents Itional Bureau (PCT Rule 17. tion for a list of the certified of	eived in Application No nave been received in this National Stage 2(a)).
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	i) ☐ All b) ☐ Some * c) ☐ None of:		3 0.3.3. g 113(a)-(d) of (f).
-	Acknowledgment is made of a clair	m for foreign priority under 3	5119 C & 119(a)-(d) or (f)
Priority	under 35 U.S.C. § 119		
11)	The oath or declaration is objected	to by the Examiner. Note th	e attached Office Action or form PTO-152.
	.,	, .,,	he drawing(s) is objected to. See 37 CFR 1.121(d).
10/	Applicant may not request that any ob		
	The drawing(s) filed on is/ar		niected to by the Examiner
	The specification is objected to by	the Everniner	
Applica	tion Papers		
8)[Claim(s) are subject to rest	riction and/or election requir	ement.
7)	Claim(s) is/are objected to.		
6)⊠	Claim(s) <u>1-4,6-12 and 14-17</u> is/are	rejected.	
5)	Claim(s) is/are allowed.		
7/12	4a) Of the above claim(s) is		eration.
	Claim(s) <u>1-4,6-12 and 14-17</u> is/are	nending in the application	
Disposi	tion of Claims		
	closed in accordance with the pract	ctice under <i>Ex parte Quayle</i> ,	1935 C.D. 11, 453 O.G. 213.
		<i>/</i> —	ormal matters, prosecution as to the merits is
2a)	This action is FINAL.	2b) This action is non-fi	nal.
1/2	Responsive to communication(s) f	iled on 25 February 2009	
1)区			
Status	. , , , , , , , , , , , , , , , , , , ,		
- Fa An ea Status	ilure to reply within the set or extended period for re y reply received by the Office later than three month med patent term adjustment. See 37 CFR 1.704(b)	ply will, by statute, cause the application is after the mailing date of this communi-	e SIX (6) MONTHS from the mailing date of this communication. to become ABANDONED (35 U.S.C. § 133). cation, even if timely filed, may reduce any

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-4, 6-12, and 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koch US 3152865 in view of Noweck US 6773690.

Koch teaches a process of making boehmite alumina by hydrothermal aging of an aluminum alcoholate (Column 1 Lines 35-45) in the presence of a chelating agent comprised of an organic component containing multi carboxylate ions or a polycarboxylic radical (Column 3 Lines 15-29). The chelating agent is generally used in an amount of about 0.5% to 3% of the dry alumina (Column 2 Lines 44-45). The pH of the mixture is greater than 7, preferably between 8 and 9.5 (Column 2 Lines 35-40).

Koch does not expressly state that the aging process is performed at temperature between 120 and 250 degrees C.

Noweck teaches a process of making boehmitic aluminas, where in a metallic or nonmetalic oxide, or oxide hydrate is present in a hydrothermal aging process, requiring an aging temperature of between 40 and 240 degrees C (Column 3 Lines 5-13).

At the time of invention it would have been obvious to a person of ordinary skill in the art to form the process of Koch including the use of a metallic or nonmetalic oxide, or oxide hydrate in the hydrothermal aging process, requiring an aging temperature of

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between 40 and 240 degrees C in view of the process of Noweck. The suggestion or motivation for doing so would have been to make crystalline boehmite aluminas (Column 3 Lines 5-13).

Response to Arguments

Applicant's arguments filed 2/25/29 have been fully considered but they are not persuasive.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986).

Applicant argues "Koch does not contemplate hydrothermal aging of the type claimed by Applicant is exemplified in Examples I-VIII of Koch where there is absolutely no teaching of hydrothermal aging as claimed by Applicant." In response, hydrothermal aging is not required by claims 1, 15 and 16, ("optionally followed by hydrothermal aging" and "hydrolysis and /or hydrothermal aging"). The Koch reference teaches hydrolysis (Column 4 Line 17), which is a sufficient teaching of claims 1, 15 and 16.

Applicant argues that the teaching of "about 8 to 9.5" modifies 8 and not the number 9.5. In response, the Examiner disagrees. The word about would modify the entire range and not just the lower limit.

Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES A. FIORITO whose telephone number is (571)272-7426. The examiner can normally be reached on 9am - 6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman can be reached on (571) 272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/James A Fiorito/ Examiner, Art Unit 1793 /Wayne Langel/ Primary Examiner, Art Unit 1793